been bestowed upon several British of-

cently obtained it are Lieut, Babing-

ton and Commander Briggs, to whom it was awarded on account of their daring raid upon the Zeppelin fac-tory upon the shore of Lake Con-

Another much coveted French

decoration is the Medaille Militaire, which is conferred upor

warrant officers, non-commissioned officers and men. It is a handsome

medul, bearing a head of the Republi

surrounded by a laurel wreath and surmounted by a trophy of arms. It

is worn on a yellow ribbon with a green border. Until the present war few Englishmen had ever gained it.

but an army order dated November

ontains a long list of men

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vice possible.

SH--- THESE PLANTS WILL HEAR

At the Coming Flower Show There Are Some That Not Only Hear. but See. Feel and Faste, Say Botanists

HE majority of botanists are willing to agree that many plants possess some senses found in human beings. Of course the matter is one more or less disputed, but there are many authorities who declare that plants not only hear, see, feel and taste, but that they possess certain mentality and spirit-uality. Sir Francis Darwin in 1909 when president of the British Society made an address in which he asserted that we must believe that "in plants there exists a fine copy of what we know as consciousness in ourselves," and he went on at length to explain why, giving accounts of his experiments with plants and by actual demonstration

M. Jean Viaud-Bruant, the celebrated nurseryman of Poitiers, France published a brochure some years ago entitled "Bapteme de Fleurs," in which he says: "When, as a young man, I studied natural science a Poltiers, I became intensely intereste in all the phenomena of vegetable life and I tried to reproduce them in my gardens. It was my purpose to under stand the real life of the flowers was beginning to grow. I already

loved them passionately, and myoung imagination endowed them will certain faculties and feelings, when noticed, particularly at the moment of fecundation, certain suggestive phenomena, certain nervous or spasmodic movements. And when I saw the climbing plant turn toward the support necessary for its progress I began to wonder whether a will di-

can see the beautiful woman who inales its perfume, and I base my belief the observations of Prof. Wagers of Cambridge University and on the absolute conviction of M. Cunisset-Carnot. And plants can hear. The sensitive plant folds up its leaves in fright if a loud noise is made near it This same plant, too, with the impres. are also in the group. sionable nature of a nervous woman, is rendered insensible by anæsthetics particularly by ether, which proves that it has a nervous system."

M. Viaud-Bruant was also inclined believe that plants have a system of speech peculiar to them, and he submits the following hypothesis: "We know that the scent of flowers is a manifestation of their vegetable life a living radiation. Scent considered as an olfactory sensation is : vibra-tion. Scent, then, is the sound uttered by flowers, and a bouquet is a song without words. Every scent, or rather every sensation of a scent, corresponds to a certain speed of vibration which is peculiar to it. Here we see an analogy between the perception of sound, light and scent. Strong scents correspond to low notes; delicate scents to high notes."

M. Vlaud-Bruant was positive that plants could hear and cited experi-ments with certain sensitive plants. such as the mimosa, which is a dainty bush, with small, delicate oval leaves. arranged serrately on its many stems and branches. A phenomenon which has been noted with mimosa plants is that after a time if continually subfected to loud sounds they become leaf, just as in human life the trap poter and the soldier become deaf At present the armies engaged in European conflict are endeavoring find an ear muffling device for the being caused. In this respect sensitive plants are affected exactly as

an active, existing mentality and a plants.

turned to its old, wormy books and and European scientists.

emphatic in the declaration of their sense of hearing actuated this car-belief in the theory of plant mental-nivorous plant. This Flower bers of the Legion d'Honneur have the Show, where many of these remark-right to a military funeral, which tty and intelligence.



Remarkable collection of insect-eating plants, including pitcher plants, nepenthes, sarracecia mandaiana and moccasin flowers. Brought from Australia by W. A. Manda, formerly curator at Harvard University Botanical Gardens. Sensitive plants which close up when they hear sharp sounds



*Consider first the evidence of plant but passive powers and not in any way mentality. Great and unblassed minds an evidence of intelligence in the plant that is intensely interesting than the hardt a few years ago. The order conhave for many years been centred on there are certain actual and purpose- average person imagines. In Amer- sists of five classes, ranging from the study of plant habits, in the hope ful motions of the plant which might ica there is a widely increasing, in- "Grand Croix," of which the number of finding some conclusive evidence of be called its 'active' mentality. It is terest being taken in flowers at of recipients is limited to eighty, down an existing mentality in plant life. As in the existence or non-existence of present, far more than was the case to simple chevaliers, whose number is a result of these exhaustive investi- this 'active' mentality that we find a few years ago. One of the things unlimited. British subjects upon whom gations, occasional articles and treat-question for consideration; plant sen-iscs have appeared, which claimed that sation has been proved and must be fashion in women's clothes which their authors had found, beyond all accepted as existing in the plant na- calls for the wearing of flowers with Office before accepting, and considquestions, the proof of an active intel-ture; plant action, instances of which so than in the past, also because it is in the past by the grudging manner of the average human is a stolid thing, explained by any theory other than fashionable for men to wear bou- in which this privilege has been acand hates to be joited from its regular that of the existence of a mentality, or tonieres. The custom of sending flow-corded. There are, however, indica-course by the entertainment of new reasoning power, which commands ers to women friends, which died down tions that in future this restriction

the men who have furnished this proved conclusively that leaves of cerannuement, who have learned really to tain plants could hear insects or were lectures on gardening for children the Legion d'Honneur is a five pointed know plant nature, smile in their turn conscious of the nearness of insects and others, such as those which Mrs. star placed over a wreath of oak and claim the truths which their even when there was no contact be- Herbert Spencer Harde has been giv- laurel leaves. In the days when tween the plant and the body of the in- ing recently, have created a new in- France was a monarchy the star was one of the most convinc- sect, and demonstrated it by pinning terest in American horticulture. Per- surmounted by a crown, but a small ing evidences of mentality in plants is a live fly half an inch from a leaf of sons of wealth are now importing fine laurel wreath now takes the place of invariable conversion to sundew, whereup the leaf moved itself plants from foreign countries, just as that royal emblem. For the grade of this belief of those who have really within the succeeding two hours near they import dogs and fine wines, and chevalier the star is of silver, but for given themselves to study and to a enough to fasten its tentacles upon the whereas many conservatories conthat of officier and all superior ranks sincere attempt to understand the national state of the superior ranks and staple values of gold. Chevaliers have the ture of plants. Among the foremost sense of smell, but the fact that the ricties of plants some years ago, right to wear in the buttonhole a naturalists and psychologists of the buzzing of the fly's wings as it died amateur horticulturists are now small bow of scarlet ribbon, and ofpast and present stand many who are made a hum would indicate that the endeavoring to secure rare varie- ficiers a resette of similar color. Mem-

An Austrian baron, Prof. Nowack, able varieties can be seen, will interest varies in importance according to morning and the singers moved out.

There is much more about plant life was bestowed upon Mme. Sarah Bern-

Cattleya Dowiana of the variety "Memoria Julius Roehrs." One of the rarest orchids and only one plant of its kind in the world. Owner has been offered more than \$1,000 for the plant.

whom it has been granted. This medal entitles its wearer to a military salute

gium is the Order of Leopold. This was founded in 1832 by Leopold I., and consists of five classes: Knights grand cross, grand officers, commanding officers and knights. It has already been bestowed upon several members of the British expeditionary force. The star, which is of four points, but the layman who has but scant has in the centre the lion ram-knowledge of botany and horticulture, pant of Belgium, surrounded by the motto, "L'Union fait la force." surmounted by a crown, beneath which, in the case of military recipi-WARDS of orders and decora- ents, are placed crossed swords. Like tions conferred upon individ-uals and regiments for distin-this decoration is of gold for all classes guished service on the field of battle above that of chevaller, for which it

been told in despatches to newsnations in Europe. Some of these an award founded in 1895 by Leopoid II. It consists of two classes; the turies, while others are of compara- first is awarded to officers of twenty-

in the power of the Horticultural Society attributed to the other, especially of New York and the New York Plorametrian Society and the New York Plorametrian Society attributed to the other, especially when, with all other powers of the sound effect of New York and the New York Plorametrian Society attributed to the other, especially when, with all other powers of the sound effect of New York and the New York Plorametrian Society attributed to the other, especially when, with all other powers of the sound effect of New York and the New York Plorametrian Society and the New York Plorametrian Society and the New York Plorametrian Society attributed to the other, especially when, with all other powers of the sound the New York Plorametrian Society and the New York Plorametrian Society Royal Dixon, author of a work on the "human side of plants," recently published, speaking on this subject, said that "very human powers of sense and a physical sense; or six therefore, in discussing plant mentality these powers will not be referred to but only that mentality; that is, senses might be termed 'pasticy these powers will not be referred to but only that mentality; that is, senses which, realizes, reasons and wills. It is post, but only that mentality which recalizes, reasons and wills. It is post, but only that mentality which an active, existing mentality and a mentality and a mentality and a mentality and a mentality existing mentality and a menta encircled with a golden ring, which he has the chance, but he loses the contains the imperial mantle and crown. The ribbon is of crimson with black borders. In 1878 an order was founded by Alexander III. called the Order of the Croix Rouse. It consists of a single class and is awarded only to laddes for services connected with the heart and Y makes two diamond. Then A is thrown into the lead with the heart and Y makes the club queen, instead of the nine of diamonds, B covers and Z wins. Then A is thrown into the lead with the heart and Y makes

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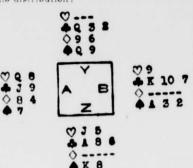
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Problems for "Sun" Readers to Solve



lead. Y and Z maintain that in spite of the change in the position of the high elubs, they can still win four tricks out

cross, surmounted by an ornamental crown. It is worn on the breast, suspended by a crimson ribbon.

SALTS DOWN FROG CHORUS.

California Woman Gets Rid of Night Serenaders.

Cudaty. Cal., March is—Cudaty boasts a magician who has power over frogs. This marvei, a woman, lives where the ground is low and the water gathers when it rains. And in the rain the frogs come home to roest and to croak.

Mrs. M. H. Murphy, who lives on Mary street, stood the serenade the first night very well. But the second night her nerves got ragged around the edges and on the third night she racked her brains for a way to silence frogs.

Her subconscious mind came to the rescue and suggested a remedy she first heard in childhood. This was to feed the melodious frogs with sail. Five heard in childhood. This was to feed the melodious frogs with sail. Five pounds of sailt covered Frogtown next morning and the singers moved out.

Bridge problem No. 317, by Capt. Frank Roy, is another striking example of the manner in which the transposition of one or two cards in a single suit can change the whole scheme of play. The line of attack in No. 317 is entirely different from that in No. 315. Here is the distribution:

Description of the cards is a second hand. The queen goes to the king and the seven is returned. If Z passes A wins and leads a spade after making the queen of hearts; four tricks for A and B.

Clubs are trumps and Z is in the lead Y and Z want eight tricks against any defence. The distribution of the cards is a follows:

Y has the ace, ten, five, four and three for A and B.

A has the jack, nine and five of hearts.

spade king and B wins it, makes the ten of clubs and leads the heart. If B does not win the spade king Y and Z get their four tricks through the weak defence. If A is allowed to hold the first trick with the club jack he comes right back with the nine and if Y plays small B plays the ten, forcing the ace, after which a club, a heart and a spade trick must go to A and B.

A common mistake in the defence was to have B win the first club and lead a small spade. This allows Y and Z to get their four tricks, but it is not sound. Z puts up the spade king, leads the top club and follows with the heart a number of the solutions sent in few of hearts, king.

The has the ten of hearts, king.

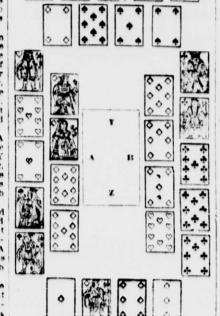
The eight and seven of trumps of seven and five of diamonds; no spade with a deuce of clubs in a common six and three of diamonds; no spade trick must go to A and B.

The cracks have again decided to vor of Mr. Lyman by conceding white cannot prevent black from a number of the solutions sent in few of the solutions.

he hear! a number of the solutions sent in to heart 312 because of the apparent wo

make his two good spades and the ten of

By Vladmir de Rozing.



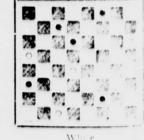
ranged by one of the PROBLEM NO. 318

D 6--

6- 1 22-18

Same as trunk at 8

By Benjamin





theories in calm self-satisfaction. But An American woman, Mrs. Treat, sunken gardens on American estates diers of any distinctions which may

insects were feeding on sap running but not often. Rosa Bonheur was one upon whom it was conferred, and it

and original ideas; so it has glanced at such action."

considerably a few years ago, has is likely to be considerably relaxed, been revived. Then, too, the great for England to pay to her Allies were and with smiling superiority has reby a number of foremost American strides made in landscape gardening any difficulties to be placed in the and the increase of rock gardens and way of the acceptance by British solis to an extent responsible, while be conferred upon them. The cross of

in France, and it may be worn on

be exhibited.

only the connoisseur of flowers

AWARDS FOR BRAVERY.

The best known distinction in Bel-

the care of the sick and wounded. Many Russian ladies are now devoting their lives to this work and will no doubt receive this distinction. It consists of an enamelled ribbon bearing the date 1877-78, surrounding a red cross, surmounted by an ornamental crown. It is worn on the breast, suspended by a crimson ribbon.

If Z goes up with the ace on the return of the club he must lead the spade king and B wins it, makes the ten of clubs and leads the heart. If B does not win the spade king and B wins it, makes the ten of clubs and leads the heart. If B has the ten of hearts, king, far does not win the spade king and a leads to the spade king and the spade king and the spade king and the spade king are spade king and the spade king and the spade king and the spade king are spade king and the spade king and the spade king are spade king and the spade king an

There are no trumps and Z is in the lead. Y and Z maintain that in spite of the change in the position of the high eight, they can still win four tricks out of seven against any defence.

Z has before him no less than four different attacks by which the problem might be solved if he could get any one of them through. One is to throw B of the defence here is for A both cover. The defence here is for A both cover. The defence here is for A kings on 14 and 15. White might be solved the lead so that he shall have to

the soundness of which some